

AMENDMENT TO THE CLAIMS

1-5. (Canceled)

6.(Currently Amended) The apparatus of claim 23, wherein the tray holds a plurality of cup impactor devices, said cup impactor devices each having an impaction surface on an interior bottom of the cups_bodies, and further including a manifold overlying the impaction surfaces and having openings for injecting liquid into each of the cups_bodies including the impaction surfaces, a drain for draining liquid from each cup_body, and a passageway for a drying fluid in the manifold open to each cup_body to provide drying fluid to the plurality of impaction surfaces simultaneously while held in the tray.

7.(Currently Amended) The apparatus of claim 6, and seals for sealing each of the cups_shapeddevices relative to the manifold.

8.(Previously Presented) The apparatus of claim 6, wherein the openings for injecting liquid open to a single passageway for liquid and gas leading to each of the impaction surfaces.

9-14. (Canceled)

15.(Previously Presented) The apparatus of claim 23 wherein the cup impactor devices hold particles on impaction surfaces of the cup impactor devices, after the particles have been classified as to size in an impactor, further comprising a support having a plurality of receptacles for receiving the tray and cup impactor devices carrying the particles, said support being mounted for movement, and an overlying cover on the support over the tray and cup impactor devices, the cover including openings for introducing a solvent to immerse each of the impaction surfaces.

16.(Currently Amended) The apparatus of claim 15, wherein said cup impactor devices comprise individual impactor cups, and wherein said support holds individual impactor cups having

the impaction surfaces on the interior thereof, and a clamp to clamp the cover against the individual impactor cups in position in receptacles of the support.

17.(Currently Amended) The apparatus of claim 16, wherein each of the individual impactor cups has a flange around the periphery thereof, the tray openings permitting a majority of ~~the~~each individual impactor cup to pass through the openings and so the tray supports ~~the~~each individual impactor cup on the associated flange, the support supporting the tray with the individual impactor cups protruding into the receptacles of the support, the cover engaging the flanges of the individual impactor cups and holding the individual impactor cups, the tray, and the support as a unit.

18.(Currently Amended) The apparatus of claim 17 and seals around the individual impactor cups engaging the associated flange and sealing the individual impactor cups relative to the cover.

19.(Currently Amended) The apparatus of claim 18, wherein the cover has a plenum chamber open to each of the individual impactor cups.

20.(Currently Amended) The apparatus according to claim 23 further comprising a support frame having a surface holding the tray with the cups bodies in position in receptacles in the support frame, a manifold cover held relative to the support frame and including recesses overlying each of the cups bodies, a vial holding bore formed in the manifold cover opening to each recess, and each vial holding bore having an axis that is inclined relative to the plane of the tray in a first direction, a connecting passageway adjacent an edge of each recess in the manifold cover opening to the respective vial holding bores, and each connecting passageway having an axis generally perpendicular to the axis of the respective vial holding bore, whereby rotating the support frame about a central axis causes the connecting passageway to drain the cups into the vial holding bores for receiving samples of materials in the cup impactor devices held on the tray.

21.(Previously Presented) The apparatus of claim 20, wherein said manifold cover contains passageways for introduction of liquid into the recesses.

22.(Previously Presented) The apparatus of claim 20, wherein said manifold cover includes passageways for permitting discharge of gases and liquids from the recesses in the manifold cover, and passageways for permitting the introduction of a gas into the recesses of the manifold cover.

23.(Currently Amended) An apparatus for handling cup impactor devices comprising a tray having openings for said cup impactor devices, said cup impactor devices each having a body comprising a cup that fits through the openings and flanges that engage surface portions of the tray around the openings and prevents the entire cup impactor device from passing through the openings, the bodycup of the respective cup impactor device extending through the tray.

24.(Original) The apparatus of claim 23, wherein said tray comprises a generally flat plate with the openings therethrough, and the flanges of the cups being supported on the flat plate.

25.(Original) The apparatus of claim 23 and a cover member for forming a manifold over said tray and cups, said cover member having a passageway that extends transversely across all of the cups, and openings from the passageway to each of the cups, the passageway being adapted to be fitted to a liquid cleaning material source.

26.(Original) The apparatus of claim 25, wherein said cover has a second passageway open to each of the cups on the tray, and the second passageway being connected to a source of a gaseous fluid.

27.(Original) The apparatus of claim 23 and a cover manifold for said tray comprising a plenum chamber individually open to each of the cups, and an opening above each of the cups for introducing a coating material, said tray being adapted to be rocked about a longitudinal axis with

the coating material in place, and the plenum chamber being connected to a source of gaseous fluid for eliminating vapors from the coating material.

28-32. (Canceled)

33.(Previously Presented) The apparatus of claim 6 including a quantity of an anti-bounce coating material covering the impaction surfaces.

34.(Previously Presented) The apparatus of claim 33, including a support for mounting the manifold for pivoting about a longitudinal axis of the manifold to permit rocking the cup impactor devices, to cause the coating material to flow across the impaction surfaces.